

Table A-23. Federal funds for industrial R&D performance in the U.S. as a percent of net sales of companies that performed industrial R&D in the U.S., by industry and size of company, ranked by size of federally funded R&D program: 2000

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Industry and size of company	NAICS codes	Federal R&D funds			Federal R&D funds as a percent of net sales		
		First 4 companies	Next 4 companies	Next 12 companies	First 4 companies	Next 4 companies	Next 12 companies
		[In millions of dollars]			[Percent]		
Distribution by industry:							
All industries.....	21–23, 31–33, 42, 44–81	8,283	(S) 3,121	2,823	14.6	3.7	1.0
Manufacturing.....	31–33	(D)	(D)	(D)	14.6	2.4	0.7
Food.....	311	(D)	0	0	0.0	0.0	0.0
Beverage and tobacco products.....	312	0	0	0	0.0	0.0	0.0
Textiles, apparel, and leather.....	313–16	(D)	0	0	0.0	0.0	0.0
Wood products.....	321	0	0	0	0.0	0.0	0.0
Paper, printing and support activities.....	322, 323	(D)	0	0	0.1	0.0	0.0
Petroleum and coal products.....	324	(D)	0	0	0.0	0.0	0.0
Chemicals.....	325	121	14	9	0.5	0.3	0.0
Basic chemicals.....	3251	26	(S) 5	0	0.3	0.1	0.0
Resin, synthetic rubber, fibers, and filament.....	3252	11	0	0	0.0	0.0	0.0
Pharmaceuticals and medicines.....	3254	(D)	0	0	0.1	0.0	0.0
Other chemicals.....	325 (minus 3251–52, 3254)	98	0	0	0.5	0.0	0.0
Plastics and rubber products.....	326	(D)	0	0	0.2	0.0	0.0
Nonmetallic mineral products.....	327	1	0	0	0.0	0.0	0.0
Primary metals.....	331	(S) 26	(D)	0	0.1	0.0	0.0
Fabricated metal products.....	332	40	1	0	1.5	0.0	0.0
Machinery.....	333	34	4	0	0.2	0.1	0.0
Computer and electronic products.....	334	4,847	339	273	13.0	1.2	9.4
Computers and peripheral equipment.....	3341	0	0	0	0.0	0.0	0.0
Communications equipment.....	3342	409	(S) 23	0	1.6	0.1	0.0
Semiconductor and other electronic components.....	3344	99	9	0	11.1	0.0	0.0
Navigational, measuring, electromedical, and control instruments.....	3345	4,754	163	28	12.0	23.7	0.5
Other computer and electronic products.....	334 (minus 3341–42, 3344–45)	2	0	0	0.2	0.0	0.0

See explanatory information and SOURCE at end of table.

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		First 4 companies	Next 4 companies	Next 12 companies	First 4 companies	Next 4 companies	Next 12 companies
		[In millions of dollars]			[Percent]		
Distribution by industry:							
Electrical equipment, appliances, and components.....	335	(D)	(D)	0	0.3	0.0	0.0
Transportation equipment.....	336	5,439	1,012	699	5.4	3.1	0.4
Motor vehicles, trailers, and parts.....	3361-63	172	1	0	0.1	0.0	0.0
Aerospace products and parts.....	3364	5,439	882	103	5.4	3.1	0.9
Other transportation equipment.....	336 (minus 3361-64)	548	(D)	0	3.4	0.8	0.0
Furniture and related products.....	337	0	0	0	0.0	0.0	0.0
Miscellaneous manufacturing.....	339	11	0	0	5.5	0.0	0.0
Medical equipment and supplies.....	3391	11	0	0	5.5	0.0	0.0
Other miscellaneous manufacturing.....	339 (minus 3391)	(D)	0	0	0.0	0.0	0.0
Other manufacturing	31-33 (minus 311-16, 321-27, 331-37, 339)	--	--	--	--	--	--
Small manufacturing companies ¹	Fewer than 50 employees	1	0	0	2.0	0.0	0.0
Nonmanufacturing.....	21-23, 42, 44-81	(S) 2,256	351	502	14.0	0.4	14.6
Mining, extraction, and support activities.....	21	1	0	0	0.0	0.0	0.0
Utilities.....	22	(D)	0	0	0.1	0.0	0.0
Construction.....	23	(D)	0	0	0.0	0.0	0.0
Trade.....	42, 44, 45	12	0	0	0.0	0.0	0.0
Transportation and warehousing.....	48, 49	(D)	0	0	0.0	0.0	0.0
Information.....	51	(S) 386	37	9	0.4	0.1	0.1
Publishing.....	511	22	2	0	3.8	3.5	0.0
Newspaper, periodical, book, and database.....	5111	0	0	0	0.0	0.0	0.0
Software.....	5112	22	2	0	3.8	4.0	0.0

See explanatory information and SOURCE at end of table.

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		[In millions of dollars]			[Percent]		
Distribution by industry:							
Broadcasting and telecommunications.....	513 (S)	381	(D) 0	0	0.2	0.2	0.0
Radio and television broadcasting.....	5131 (D)	0	0	0	2.9	0.0	0.0
Telecommunications.....	5133 (S)	160	0	0	0.1	0.0	0.0
Other broadcasting and telecommunications.....	513 (minus 5131, 5133)	0	0	0	0.0	0.0	0.0
Other information.....	51 (minus 511, 513)	27	0	0	0.2	0.0	0.0
Finance, insurance, and real estate.....	52, 53	0	0	0	0.0	0.0	0.0
Professional, scientific, and technical services.....	54 (S)	2,128	275	428	24.0	10.2	43.6
Architectural, engineering, and related services.....	5413 (S)	538	137	(S) 188	17.1	55.0	21.2
Computer systems design and related services.....	5415	99	28	29	36.2	45.2	0.5
Scientific R&D services.....	5417	1,865	144	291	22.1	36.2	36.5
Other professional, scientific, and technical services....	54 (minus 5413, 5415, 5417)	28	0	0	7.5	0.0	0.0
Management of companies and enterprises.....	55	0	0	0	0.1	0.0	0.0
Health care services.....	621–23	5	1	0	1.2	0.0	0.0
Other nonmanufacturing	56, 61, 624, 71, 72, 81	16	0	0	1.9	0.0	0.0
Small nonmanufacturing companies ¹	Fewer than 15 employees	2	0	0	56.9	0.1	0.0

See explanatory information and SOURCE at end of table.

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		First 4 companies	Next 4 companies	Next 12 companies	First 4 companies	Next 4 companies	Next 12 companies
		[In millions of dollars]			[Percent]		
Distribution by size of company: [Number of employees]							
Total.....	(na)	8,283	(S) 3,121	2,823	14.6	3.7	1.0
5 to 24.....	(na)	13	8	11	67.8	83.6	60.9
25 to 49.....	(na)	26	18	29	110.8	85.6	44.0
50 to 99.....	(na)	73	(S) 45	86	87.6	70.8	56.8
100 to 249.....	(na)	107	66	129	91.7	78.4	65.7
250 to 499.....	(na)	193	118	212	64.6	46.9	46.4
500 to 999.....	(na)	248	(S) 153	91	50.6	24.5	6.1
1,000 to 4,999.....	(na) (S)	535	127	75	33.0	17.2	0.8
5,000 to 9,999.....	(na)	1,528	(S) 71	26	34.2	1.3	0.1
10,000 to 24,999.....	(na)	557	91	29	4.8	0.7	0.0
25,000 or more.....	(na)	8,283	(S) 2,614	1,591	14.6	2.8	0.4

¹ The frame from which the statistical sample was selected was divided into two partitions based on total company employment. In the manufacturing sector, companies with employment of 50 or more were included in the large company partition. In the nonmanufacturing sector, companies with employment of 15 or more were included in the large company partition. Companies in the respective sectors with employment below these values, but with at least 5 employees, were included in the small company partition. The purpose of partitioning the sample this way was to reduce the variability in industry estimates largely attributed to the random year-to-year selection of small companies by industry and the high sampling weights that sometimes were assigned to them. Because of this, detailed industry statistics were possible only from the large company partition; detailed industry statistics from the small company partition were not possible. Statistics from the small company partition are shown separately and are included in manufacturing, nonmanufacturing, and all industries totals. For more information, see "frame creation" and "sample selection" in the technical notes in Section B.

KEY: (D) = Data have been withheld to avoid disclosing operations of individual companies.
(S) = Indicates imputation of more than 50 percent.
(--) = Indicates data not collected.
(na) = Not applicable.

NOTE: Rankings were based on Federal R&D funds.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Industrial Research and Development: 2000